IN THE CLAIMS:

Claims 1-16 (previously canceled).

17. (previously amended) A group A streptogramin derivative chosen from group A streptogramin derivatives of formula (I), salts thereof, and mixtures of stereoisomers of any of the foregoing:

$$H_3C_{M_{M_{M_{N_1}}}}$$
 OH CH_3 R_1 R_2 R_2 (I)

wherein:

- R₁ is chosen from -NR'R" groups, wherein
 - R' is chosen from a hydrogen atom and a methyl group, and
 - R" is chosen from
 - (i) a hydrogen atom,
 - (ii) alkyl groups,
 - (iii) cycloalkyl groups,
 - (iv) an allyl group,
 - (v) a propynyl group,
 - (vi) a benzyl group,

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- (vii) -OR" groups, wherein R" is chosen from a hydrogen atom, alkyl groups, cycloalkyl groups, an allyl group, a propynyl group, and a benzyl group, and
- (viii) -NR₃R₄ groups, wherein
 - R₃ and R₄ are each a methyl group, or
 - R₃ and R₄, which are identical or different, form, together
 with the nitrogen atom to which they are attached, a
 saturated or unsaturated 4- to 5-membered
 heterocyclyl group, wherein one of said members, in
 addition to said nitrogen atom, may be an atom
 chosen from an oxygen atom, a sulphur atom, and a
 nitrogen atom,
- R₂ is chosen from a hydrogen atom, a methyl group, and an ethyl group,
- the bond ---- is a single bond or a double bond,
- unless otherwise stated, said alkyl groups are chosen from straight and branched C_1 - C_6 alkyl groups,
- unless otherwise stated, said cycloalkyl groups are chosen from C₃-C₄ cycloalkyl groups,

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- when said R" is chosen from a hydrogen atom, alkyl groups, cycloalkyl groups, an allyl group, a propynyl group, and a benzyl group:
 - said group A streptogramin derivatives are chosen such that the carbon bearing said R₁ is of the R configuration,
 - said salts are chosen such that the carbon bearing said R₁ is of the R configuration, and
 - said mixtures are chosen such that said mixtures comprise at least one stereoisomer, wherein the carbon bearing said R_1 is of the R configuration, and at least one stereoisomer, wherein the carbon bearing said R_1 is of the S configuration, and wherein said R configuration is predominant, and
- when R" is chosen from said -OR" groups and said -NR₃R₄ groups:
 - said group A streptogramin derivatives are chosen such that the carbon bearing said R_1 is of the R configuration or the S configuration,
 - said salts are chosen such that the carbon bearing said R₁ is of the R configuration or the S configuration, and
 - said mixtures are chosen such that said mixtures comprise at least one stereoisomer, wherein the carbon bearing said R_1 is of the R configuration, and at least one stereoisomer, wherein the carbon bearing said R_1 is of the S configuration.
- 18. (previously amended) A group A streptogramin derivative according to claim 17, wherein:

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- R₁ is chosen from -NR'R" groups, wherein
 - R' is chosen from a hydrogen atom and a methyl group, and
 - R" is chosen from
 - (i) a hydrogen atom,
 - (ii) alkyl groups,
 - (iii) cycloalkyl groups,
 - (iv) an allyl group,
 - (v) a propynyl group,
 - (vi) a benzyl group,
 - (vii) -OR" groups, wherein R" is chosen from C₁-C₆ alkyl groups, an allyl group, and a propynyl group,
 - (viii) -NR₃R₄ groups, wherein
 - R₃ and R₄ are each a methyl group, or
 - R₃ and R₄, which are identical or different, form, together with the nitrogen atom to which they are attached, a saturated or unsaturated 4- to 5-membered heterocyclyl group, wherein one of said members, in addition to said nitrogen atom, may be an atom chosen from an oxygen atom, a sulphur atom, and a nitrogen atom,
- R₂ is chosen from a hydrogen atom, a methyl group, and an ethyl group,
- the bond ____ is a single bond or a double bond,

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- when said R" is chosen from a hydrogen atom, alkyl groups, cycloalkyl groups, an allyl group, a propynyl group, and a benzyl group, said group A streptogramin derivatives and said salts thereof are chosen such that the carbon bearing said R₁ is of the R configuration and said mixtures comprise stereoisomers, wherein the carbon bearing R₁ is of the R configuration or the S configuration and wherein said R configuration is predominant, and
- when R" is chosen from said -OR" groups and said -NR₃R₄ groups, said group A streptogramin derivatives and said salts thereof are chosen such that the carbon bearing said R₁ is of the R configuration or the S configuration and said mixtures comprise stereoisomers, wherein the carbon bearing R₁ is of the R configuration or the S configuration.
- 19. (previously amended) A group A streptogramin derivative according to claim 17, wherein:
- R_1 is chosen from -NR'R" groups, wherein
 - R' is chosen from a hydrogen atom and a methyl group, and
 - R" is chosen from
 - (i) a hydrogen atom,
 - (ii) C₁-C₄ alkyl groups,
 - (iii) cycloalkyl groups,
 - (iv) an allyl group,
 - (v) a propynyl group,
 - (vi) a benzyl group,

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- (vii) -OR" groups, wherein R" is chosen from C₁-C₃ alkyl groups, an allyl group, and a propynyl group,
- (viii) -NR₃R₄ groups, wherein
 - R₃ and R₄, which are identical or different, form, together
 with the nitrogen atom to which they are attached, a 5 membered saturated heterocyclyl group,
- R₂ is chosen from a methyl group and an ethyl group,
- the bond ---- is a single bond or a double bond,
- when said R" is chosen from a hydrogen atom, alkyl groups, cycloalkyl groups, an allyl group, a propynyl group, and a benzyl group, said group A streptogramin derivatives and said salts thereof are chosen such that the carbon bearing said R₁ is of the R configuration and said mixtures comprise stereoisomers, wherein the carbon bearing R₁ is of the R configuration or the S configuration and wherein said R configuration is predominant, and
- when R" is chosen from said -OR" groups and said -NR₃R₄ groups, said group A streptogramin derivatives and said salts thereof are chosen such that the carbon bearing said R₁ is of the R configuration or the S configuration and said mixtures comprise stereoisomers, wherein the carbon bearing R₁ is of the R configuration or the S configuration.

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20. (previously amended) A group A streptogramin derivative according to claim 17, wherein said group A streptogramin is (16R)-16-dimethylamino-16-deoxopristinamycin II_A or a salt thereof:

21. (previously amended) A group A streptogramin derivative according to claim 17, wherein said group A streptogramin is (16R)-16-methoxyamino-16-deoxopristinamycin II_B or a salt thereof:

22. (previously amended) A group A streptogramin derivative according to claim 17, wherein said group A streptogramin is (16R)-16-ethoxyamino-16-

deoxopristinamycin IIB or a salt thereof:

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$$H_3C_{IM_{N_{1}}}$$
 $H_3C_{IM_{N_{1}}}$
 CH_2CH_3

23. (previously amended) A group A streptogramin derivative according to claim 17, wherein said group A streptogramin is (16R)-16-allyloxyamino-16-deoxopristinamycin II_B or a salt thereof:

24. (previously amended) A group A streptogramin derivative according to claim 17, wherein said group A streptogramin is (16R)-16-methoxyamino-16-deoxopristinamycin II_A or a salt thereof:

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- 25. (previously amended) A process for preparing a group A streptogramin derivative according to claim 17, said process comprising:
- (a) preparing a group A streptogramin derivative, wherein R' is a hydrogen atom, by reacting for a time and under conditions to form a group A streptogramin according to claim 17, in the presence of a reducing agent, an amine of formula (III):

H₂N-R" (III)

wherein R" is defined as in claim 17

with a natural pristinamycin of formula (II):

wherein R₂ is defined as in claim 17,

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- (b) optionally reacting said group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom, with formaldehyde or a formaldehyde derivative to generate formaldehyde in situ for a time and under conditions to form a second intermediate compound, and then reacting said second intermediate compound with a reducing agent for a time and under conditions to form a group A streptogramin derivative, wherein R' is a methyl group, and
- (c) optionally converting said group A streptogramin derivative of formula (I), prepared by (a) or (b) above, to a salt and separating said salt, wherein the carbon bearing said R₁ is of the R configuration, or optionally separating said group A streptogramin derivative, wherein the carbon bearing said R₁ is of the R configuration.
- 26. (previously amended) A process for preparing a group A streptogramin derivative according to claim 17, said process comprising:
- (a) preparing an intermediate compound of formula (IV):

$$H_3C_{M_{M_{1}}}$$
 $H_3C_{M_{2}}$
 $H_3C_{M_{2}}$

wherein R₂ and R" are defined as in claim 17

by reacting an amine of formula (III):

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 $H_2N-R"$ (III)

wherein R" is chosen from –OR" groups, and wherein said R" groups are defined as in claim 17

with a natural pristinamycin of formula (II):

wherein R₂ is defined as in claim 17,

for a time and under conditions to form said intermediate compound of formula (IV),

- (b) isolating said intermediate compound of formula (IV),
- (c) reacting said isolated intermediate compound of formula (IV) with a reducing agent for a time and under conditions to form a group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom,

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- (d) optionally reacting said group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom, with formaldehyde or a formaldehyde derivative to generate formaldehyde in situ for a time and under conditions to form a second intermediate compound, and then reacting said second intermediate compound with a reducing agent for a time and under conditions to form a group A streptogramin derivative of formula (I), wherein R' is a methyl group, and
- (e) optionally converting said group A streptogramin derivative of formula (I), prepared by (c) or (d) above, to a salt and/or separating its R-epimer.
- 27. (previously added) A process for preparing a group A streptogramin derivative according to claim 17, said process comprising:
- (a) preparing a group A streptogramin derivative, wherein R' is a hydrogen atom, by reacting, in the presence of a reducing agent:
 - (1) a ketone, chosen according to a desired R" group, wherein said R" is as defined in claim 17, with
 - (2) an amine-containing derivative of formula (V):

wherein R₂ is as defined in claim 17,

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- (b) optionally reacting said group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom, with formaldehyde or a formaldehyde derivative capable of generating formaldehyde in situ to form a second intermediate compound, and then reacting said second intermediate compound with a reducing agent to form a group A streptogramin derivative, wherein R' is a methyl group, and
- (c) optionally converting said group A streptogramin derivative of formula (I), prepared by (a) or (b) above, to a salt and/or separating its R-epimer.
- 28. (previously amended) A composition comprising at least one group A streptogramin derivative of formula (I) or salt thereof according to claim 17 and at least one group B streptogramin derivative chosen from natural group B streptogramin components and semisynthetic group B streptogramin components.
 - 29. (canceled).
- 30. (previously added) A composition according to claim 28, wherein said at least one group B streptogramin derivative is chosen from pristinamycin I_A , pristinamycin I_B , pristinamycin I_C , pristinamycin I_D , pristinamycin I_E , pristinamycin I_F , pristinamycin I_G , virginiamycin I_G ,

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31. (currently amended) A composition according to claim 28, wherein said at least one group B streptogramin derivative is chosen from semisynthetic group B streptogramin derivatives of formula (A):

wherein:

- (1) Rb, Rc, Re, and Rf are each a hydrogen atom;
 - Rd is chosen from a hydrogen atom and a dimethylamino group; and
 - Ra is chosen from:
 - (A) −CH₂R'a groups, wherein R'a is chosen from:
 - (i) a 3-pyrrolidinylthio group,
 - (ii) a 3-piperidylthio group,
 - (iii) a 4-piperidylthio group,
 - wherein said groups (i)-(iii) may be unsubstituted or substituted with at least one group chosen from alkyl groups, and

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- (iv) alkylthio groups which are substituted with 1 or 2 groups chosen from:
 - (a) a hydroxysulfonyl group,
 - (b) alkylamino groups,
 - (c) dialkylamino groups, which may be unsubstituted or substituted with at least one group chosen from a mercapto group or dialkylamino groups,
 - (d) a piperazine ring, a morpholino group, a thiomorpholino group, a piperidino group, a 1-pyrrolidinyl group, a 2piperidyl group, a 3-piperidyl group, and a 4-piperidyl group, a 2-pyrrolidinyl group, and a 3-pyrrolidinyl group, each of which may be unsubstituted or substituted with alkyl, and
- (B) =CHR'a groups, wherein R'a is chosen from:
 - (i) a 3-pyrrolidinylamino group,
 - (ii) a 3-piperidylamino group and a 4-piperidylamino group,
 - (iii) a 3-pyrrolidinyloxy group,
 - (iv) a 3-piperidyloxy group and a 4-piperidyloxy group,
 - (v) a 3-pyrrolidinylthio group,
 - (vi) a 3-piperidylthio group and a 4-piperidylthio group,
 - wherein said groups (i)-(vi) may be unsubstituted or substituted with at least one group chosen from alkyl groups,
 - (vii) alkylamino groups,
 - (viii) alkyloxy groups, and

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- (ix) alkylthio groups which are substituted with 1 or 2 groups chosen from:
 - (a) a hydroxysulfonyl group,
 - (b) alkylamino groups,
 - (c) dialkylamino groups unsubstituted or substituted with at least one group chosen from dialkylamino groups,
 - (d) trialkylammonio groups,
 - (e) a 4-imidazolyl group, and a 5-imidazolyl group, each of which may be unsubstituted or substituted with alkyl,
 - (f) a piperazine ring, a morpholino group, a thiomorpholino group, a piperidino group, a 1-pyrrolidinyl group, a 2-piperidyl group, a 3-piperidyl group, a 4-piperidyl group, a 2-pyrrolidinyl group, and a 3-pyrrolidinyl group, each of which may be unsubstituted or substituted with alkyl,
- (C) a 3-quinuclidinylthiomethyl group, and
- (D) a 4-quinuclidinylthiomethyl group; or
- (2) Ra is a hydrogen atom, and
 - (a) Rb, Re, and Rf are each a hydrogen atom, and
 - Rd is chosen from a –NHCH₃ group and a –N(CH₃)₂ group, and Rc is chosen from a chlorine atom and a bromine atom, or when Rd is a –N(CH₃)₂ group, Rc is chosen from (C3-C5) (C₃-C₅) alkenyl groups, or
 - (b) Rb, Rd, Re, and Rf are each a hydrogen atom, and

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- Rc is chosen from halogen atoms, aminomonoalkyl groups, aminodialkyl groups, alkyloxy groups, a trifluoromethyloxy group, thioalkyl groups, (C₁-C₃) alkyl groups, and trihalomethyl groups, or
- (c) Rb, Rc, Re, and Rf are each a hydrogen atom, and
 - Rd is chosen from halogen atoms, an ethylamino group, a diethylamino group, a methylethylamino group, alkyloxy groups, a trifluoromethyloxy group, thioalkyl groups, (C₁-C₆) alkyl groups, aryl groups, and trihalomethyl groups, or
- (d) Rb, Re, and Rf are each a hydrogen atom,
 - Rc is chosen from halogen atoms, aminomonoalkyl groups, aminodialkyl groups, alkyloxy groups, a trifluoromethyloxy group, thioalkyl groups, and (C₁-C₃) alkyl groups, and
 - Rd is chosen from halogen atoms, an amino group, aminomonoalkyl groups, aminodialkyl groups, alkyloxy groups, a trifluoromethyloxy group, thioalkyl groups, (C₁-C₆) alkyl groups, and trihalomethyl groups, or
- (e) Rc, Re, and Rf are each a hydrogen atom, and
 - Rb and Rd are each a methyl group.
- 32. (canceled).
- 33. (previously amended) A pharmaceutical composition comprising at least one group A streptogramin derivative of formula (I) or salt thereof according to claim 17 and at least one group B streptogramin derivative, wherein said composition optionally

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comprises at least one pharmaceutically acceptable diluent, at least one pharmaceutically acceptable adjuvant, or at least one pharmaceutically acceptable diluent and at least one pharmaceutically acceptable adjuvant.

- 34. (previously added) A process for preparing a group A streptogramin derivative according to claim 17, said process comprising:
- (a) preparing a group A streptogramin derivative, wherein R' is a hydrogen atom, by reacting for a time and under conditions to form a group A streptogramin according to claim 17, in the presence of a reducing agent, an amine of formula (III):

H₂N-R" (III)

wherein R" is defined as in claim 17

with a natural pristinamycin of formula (II):

wherein R₂ is defined as in claim 17,

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- (b) optionally reacting said group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom, with formaldehyde or a formaldehyde derivative to generate formaldehyde in situ for a time and under conditions to form a second intermediate compound, and then reacting said second intermediate compound with a reducing agent for a time and under conditions to form a group A streptogramin derivative, wherein R' is a methyl group,
- (c) optionally converting said group A streptogramin derivative of formula (I), prepared by (a) or (b) above, to a salt and separating said salt, wherein the carbon bearing said R₁ is of the R configuration, or optionally separating said group A streptogramin derivative, wherein the carbon bearing said R₁ is of the R configuration, and
- (d) isolating said group A streptogramin derivative of formula (I) or salt thereof, prepared by (a), (b), or (c) above.
- 35. (previously added) A process for preparing a group A streptogramin derivative according to claim 17, said process comprising:
- (a) preparing an intermediate compound of formula (IV):

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wherein R2 and R" are defined as in claim 17

by reacting an amine of formula (III):

H₂N-R" (III)

wherein R" is chosen from –OR" groups, and wherein said R" groups are defined as in claim 17

with a natural pristinamycin of formula (II):

wherein R₂ is defined as in claim 17,

for a time and under conditions to form said intermediate compound of formula (IV),

(b) isolating said intermediate compound of formula (IV),

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- (c) reacting said isolated intermediate compound of formula (IV) with a reducing agent for a time and under conditions to form a group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom,
- (d) optionally reacting said group A streptogramin derivative of formula (I), wherein R' is a hydrogen atom, with formaldehyde or a formaldehyde derivative capable of generating formaldehyde in situ for a time and under conditions to form a second intermediate compound, and then reacting said second intermediate compound with a reducing agent for a time and under conditions to form a group A streptogramin derivative of formula (I), wherein R' is a methyl group,
- (e) optionally converting said group A streptogramin derivative of formula (I), prepared by (c) or (d) above, to a salt and/or separating its R-epimer, and
- (f) isolating said group A streptogramin derivative of formula (I) or salt thereof, prepared by (c), (d), or (e) above.

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